

For Research Use Only

OCT1 Recombinant antibody

Catalog Number: 85726-1-RR



Basic Information

Catalog Number: 85726-1-RR	GenBank Accession Number: BC003571	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 5451	CloneNo.: 243074D12
Source: Rabbit	UNIPROT ID: P14859	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:400-1:1600
Isotype: IgG	Full Name: POU class 2 homeobox 1	
Immunogen Catalog Number: AG0586	Calculated MW: 76 kDa Observed MW: 90 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : A431 cells, HepG2 cells, HeLa cells, NCCIT cells, HEK-293 cells IF/ICC : HeLa cells,

Background Information

The POU class 2 homeobox 1 (POU2F1), also known as octamer-binding transcription factor-1 (OCT-1), is a ubiquitous nuclear protein that regulates the transcription of target genes by binding to a cis-acting octamer element(5'-ATTTGCAT-3'). It participated in the regulation of housekeeping genes, including histone H2B and snRNAs, for cell differentiation and proliferation [PMID:3462701]. In addition, it functions as a cellular stress sensor that modulates activities of tissue-specific target genes involved in immune and inflammatory responses [PMID:16322220]. It also acts as a repressor for the cytokine-inducible, NF-κB-dependent expression of E-selectin and the vascular cell adhesion molecule during vascular inflammation. Otherwise, it can interact with nuclear hormone receptors, such as the retinoid X receptor, the thyroid hormone receptor and the glucocorticoid receptor, and influence their transcription activity[PMID:17192276].

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

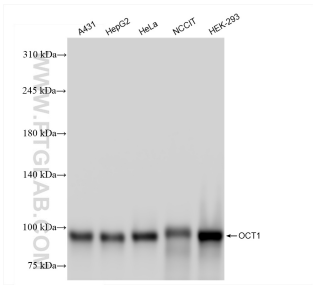
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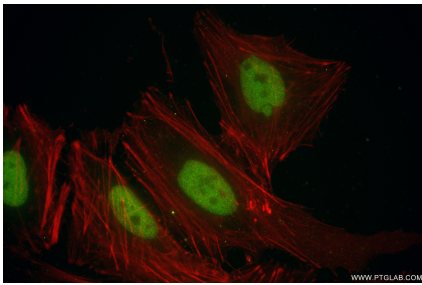
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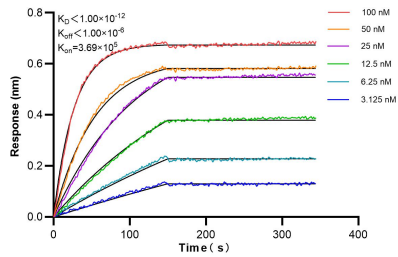
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85726-1-RR (OCT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OCT1 antibody (85726-1-RR, Clone: 243074D12) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 85726-1-RR against Human OCT1 were performed. The affinity constant is below 1 pM.